

AGRICULTURAL RESOURCE
MANAGEMENT STUDY
FLUE-CURED TOBACCO PRODUCTION
PRACTICES and COSTS REPORT
for 1996

VERSION	STRATUM	ID/SEGMENT	TRACT	SUBTRACT	T-TYPE	TABLE	LINE
03	__ __	__ - - - - -	__ __	__ __	0	000	00

CONTACT RECORD		
DATE	TIME	NOTES

RCODES 3 - COMPLETE 4 - SCREENOUT 5 - NO TARGET COMMODITY 8 - REFUSAL 9 - INAC./INCOMPL.	
OPTIONAL	0001
OPTIONAL	0002
OPTIONAL	0003

INTRODUCTION
[Introduce yourself, and ask for the operator. Rephrase in your own words.]

We are collecting information on practices and costs to produce flue-cured tobacco and need your help to make the information as accurate as possible. Authority for collection of information on the Flue-Cured Tobacco Production Practices and Costs Report is Title 7, Section 2204 of the U.S. Code. This information will be used for economic analysis and to compile and publish estimates for your region and the United States. Response to this survey is confidential and voluntary.

We encourage you to refer to your farm records during the interview.

BEGINNING TIME [MILITARY] 0004

☐ [Name, address and partners verified and updated if necessary.]

ENUMERATOR NOTE:
If box is code 1, complete the Screening Supplement.
If box is not coded, begin with Section A.

SCREENING BOX
0005

PARTNERS:	LSF ID	LSF ID
PARTNER NAME	PARTNER NAME	PARTNER NAME
ADDRESS	ADDRESS	ADDRESS
CITY STATE ZIP PHONE NUMBER	CITY STATE ZIP PHONE NUMBER	CITY STATE ZIP PHONE NUMBER
LSF ID	LSF ID	LSF ID
PARTNER NAME	PARTNER NAME	PARTNER NAME
ADDRESS	ADDRESS	ADDRESS
CITY STATE ZIP PHONE NUMBER	CITY STATE ZIP PHONE NUMBER	CITY STATE ZIP PHONE NUMBER

PARTNERS' STRATUM 182

0006	0007	0008	0009
__ __	__ __	__ __	__ __

A **TOBACCO ACREAGE and QUOTA**

A

TOTAL PLANTED ACRES
OF FLUE-CURED
TOBACCO

1001	_____
------	-------

1. How many acres of flue-cured tobacco did this operation plant in 1996?
 [If no acres planted, review information on Screening Report.
 Make notes, then go to item 2 of Conclusion, back page.]

2. How many of the [item 1] flue-cured tobacco acres were--

ACRES

1002	_____
1003	_____
1004	_____
1005	_____

[Total must equal
item 1.]

EFFECTIVE QUOTA

3. In 1996, how many pounds of flue-cured tobacco quota were--

POUNDS

1006	_____
1007	_____
1008	_____
1009	_____
1010	_____
1011	_____
1012	_____

4. Then the total effective quota for this operation in 1996 was?

1013	_____
------	-------

[Total of items 3a + 3b + 3c + 3d + 3e - 3f - 3g.] =

5. How many pounds of under-marketings or quota are being
 carried forward by this operation to 1997?

1014	_____
------	-------

6. [If item 3c is positive ask--]

What was the cash rent paid for quota
 cash rented with land?

CENTS PER
POUND

AND DOLLARS & CENTS
PER ACRE

OR

TOTAL DOLLARS

1015	_____	1016	_____
------	-------	------	-------

1017	_____
------	-------

7. [If item 3d is positive, ask--]

What was the cash rent paid for quota
 cash rented without land?

CENTS PER
POUND

OR

TOTAL DOLLARS

1018	_____
------	-------

1019	_____
------	-------

B

TOBACCO GREENHOUSES, PLANT BEDS and FLOAT BEDS

B

1. What percent of all the conventional flue-cured tobacco bed plants used by this operation for the 1996 crop were purchased from other operations? (Include ALL ready-to-transplant purchases. Exclude plants grown by this operation in purchased float trays.) [If none, go to item 2.]

PERCENT

0891

DOLLARS

- a. What was this operation's total cost for bed plants purchased from other operations for the 1996 flue-cured tobacco crop?

0892

- b. [Ask only if CASH or SHARE RENTED flue-cured tobacco acres were reported in Section A, item 2.]

What was the total landlord cost for bed plants purchased from other operations for the 1996 flue-cured tobacco crop?

0893

[ENUMERATOR INSTRUCTION: If item 1 is 100%, go to Section C, page 8.]

GREENHOUSES

2. Did this operation grow flue-cured tobacco plants in its own greenhouses in 1996?

☐ YES - [Continue.]

☐ NO - [Go to item 5.]

1 AGE	2 → How many greenhouses used were [age in column 1]? NUMBER	3 What was their TOTAL size in square feet?
a. under 5 years old?	0894	0897
b. 5 to 10 years old?	0895	0898
c. more than 10 years old?	0896	0899

3. For flue-cured tobacco plants grown in greenhouses, what was this operation's TOTAL cost in 1996 for-- [Exclude landlord's cost.]

TOTAL DOLLARS

- a. seed?

0900

- b. fertilizer?

0901

- c. chemicals and pesticides?

0902

- d. plastic and fiber (liners and covers)?

0903

- e. potting soil?

0904

- f. trays?

0905

- g. other greenhouse supplies? [Exclude labor, fuels, lubricants and utilities.]

0906

4. What percent of the flue-cured tobacco plants grown in your greenhouses were sold to other operations? [If none, go to item 5.]

PERCENT

0907

DOLLARS

- a. How much was received for the sale of flue-cured tobacco plants to other operations from your greenhouses?

0908

B TOBACCO GREENHOUSES, PLANT BEDS and FLOAT BEDS

B

PLANT BEDS and FLOAT BEDS

5. How many plant beds did this operation have in 1996? [If none, go to item 6.]	NUMBER 0909
a. What was the total square yards of all the plant beds?	SQUARE YARDS 0910
b. What percent of all the flue-cured tobacco plants for the 1996 crop were grown in this operation's plant beds?	PERCENT 0911
6. How many float beds did this operation have in 1996? (Exclude greenhouse operation.) [If none, go to item 7.]	NUMBER 0912
a. What was the total square yards of all the float beds?	SQUARE YARDS 0913
b. What was the total number of float tray cells in the flue-cured tobacco float beds?	NUMBER 0914
c. What percent of plants grown in this operation's float beds were purchased from other operations? [If none, go to item 6d.]	PERCENT 0915
(1) What was this operation's total cost for float plants in trays purchased from other operations in 1996?	DOLLARS 0916
d. What percent of all the flue-cured tobacco plants for the 1996 crop were grown in this operation's float beds?	PERCENT 0917

B TOBACCO GREENHOUSES, PLANT BEDS and FLOAT BEDS**B**

[ENUMERATOR INSTRUCTION: If NO plant beds and float beds (items 5 and 6 are both ZERO), go to Section C, page 8; else continue..]

7. What was this operation's total cost for SEED used for the 1996 flue-cured tobacco plant and/or float beds? DOLLARS
[Exclude seed for greenhouses.] 0918
8. Not including the cost of fertilizer materials, how much was spent for custom application of FERTILIZERS to the flue-cured tobacco plant and/or float beds?
(Exclude landlord costs.)
[If material and application costs can't be separated, exclude them here and record the total in item 9.] 0919
9. What was the TOTAL materials cost for all FERTILIZERS, lime, soil conditioners, micronutrients, etc. applied to the flue-cured tobacco plant and/or float beds?
(Exclude landlord costs. Include materials applied to flue-cured tobacco beds which were fallow in 1995.)
[If custom applied, include the cost of materials ONLY, unless materials and application costs cannot be separated.] ... 0920
10. Not including the cost of materials, how much was spent for custom application of CHEMICALS and PESTICIDES on the flue-cured tobacco plant and/or float beds? *(Exclude landlord cost.)* *[If material and application costs can't be separated, exclude them here and record the total in item 11.]* 0921
11. What was the TOTAL cost of all CHEMICALS and PESTICIDES applied to the flue-cured tobacco plant and/or float beds?
(Exclude landlord cost. Include insecticides, herbicides, fungicides, surfactants, wetting agents, and sucker control chemicals. Include materials applied before planting and materials applied to fallow land. Exclude seed treatments.)
*[If custom applied, **include** the costs of materials ONLY, unless material and application costs can't be separated.]* 0922
12. In 1996, what was this operation's total cost for plant bed and/or float bed supplies?
*(**Include** plastic, canvas covers, liners, potting soil, trays, tubes, fiber, wood, etc. **Exclude** fuels, lubricants and utilities.)* 0923
13. Did this operation sell flue-cured tobacco plants grown in its plant or float beds to other operations?
☐ YES - *[Continue.]* ☐ NO - *[Go to item 14.]*
- a. What percentage of the flue-cured tobacco plants grown in this operation's plant or float beds were sold to other operations? 0924 PERCENT
- b. How much was received for flue-cured tobacco plants sold to other operations from your plant or float beds? 0925 DOLLARS

*B TOBACCO GREENHOUSES, PLANT BEDS and FLOAT BEDS**B**LANDLORD COSTS for PLANT/FLOAT BEDS**[If NO RENTED flue-cured tobacco acres were reported in Section A, item 2b or 2c, go to item 19.]*

	<i>DOLLARS</i>
14. What was the total landlord cost for flue-cured tobacco SEED for the 1996 plant and/or float beds?	0926
15. What was the total cost paid by all LANDLORDS for custom FERTILIZER applications for the plant and/or float beds? (Exclude material costs.)	0927
16. What was the total materials cost paid by all LANDLORDS for FERTILIZERS, lime, soil conditioners and micronutrients applied to the plant and/or float beds? (Exclude application costs.)	0928
17. What was the total LANDLORD cost for custom CHEMICAL and PESTICIDE applications to the plant and/or float beds? (Exclude material costs.)	0929
18. What was the total LANDLORD cost for CHEMICALS and PESTICIDES applied to the plant and/or float beds? (Exclude application costs.)	0930

*OTHER CUSTOM SERVICES for PLANT BEDS**[If PLANT BEDS were reported in item 5, continue; else go to Section C, page 8.]*

19. Now I need some information on custom and technical services for the 1996 flue-cured tobacco plant beds.

1 CUSTOM or TECHNICAL SERVICE →	2 How much did the operation spend for this service on the flue-cured tobacco plant beds? (Exclude landlord cost.) <i>DOLLARS</i>	3 How much did your LANDLORDS spend for this service on the flue-cured tobacco plant beds? <i>DOLLARS</i>
a. technical services such as soil testing and insect scouting?	0931	0933
b. all other custom and/or technical services? (Specify _____) (Include custom land preparation and custom planting or reseedling. Exclude custom fertilizer and pesticide applications.)	0932	0934

B TOBACCO GREENHOUSES, PLANT BEDS and FLOAT BEDS

B

PLANT BED OPERATIONS

20. Now I would like to list all tractors used on the flue-cured tobacco plant beds.
(Include all tractors owned, rented, leased or borrowed and those used to haul flue-cured tobacco plants to the fields. Exclude tractors provided by custom operators.)

1	2 What tractors were used on the PLANT BEDS? MAKE and MODEL	3 What was the model year? [Enter last 2 digits.]	4 Is this tractor-- 2-wheel drive? 2-wheel drive with front wheel assist? 4-wheel drive? crawler? other?	5 What is its PTO horsepower? PTO HORSEPOWER	6 Is it-- 1 diesel? 2 gasoline? 3 LP gas 9 other?
1		0935	0941	0947	0953
2		0936	0942	0948	0954
3		0937	0943	0949	0955
4		0938	0944	0950	0956
5		0939	0945	0951	0957
6		0940	0946	0952	0958

21. Now, I need to ask about work performed by machines on the plant beds for the 1996 flue-cured tobacco crop. Let's begin with the first activity to prepare the plant beds and continue through removing the plant sets for transplanting.
(Include plowing, corrugation, land preparation, seeding, applying fertilizers and pesticides, preparing for irrigation, etc. Exclude all custom operations.)

INCLUDE FERTILIZER and PESTICIDE IMPLEMENTS

1 What operation or equipment was used on the PLANT BEDS?	2 [Record machine code from Respondent Booklet.]	3 What was the size or swath of the [machine] used?	4 [Record size code.] 1 FEET 2 ROW 3 MOLDBOARD (bottoms) 66 ANIMAL DRAWN 77 PICK-UP 88 OTHER TRUCKS 99 SELF PROPELLED	5 Which tractor was used? [Record line number from item 20, or PTO HORSEPOWER]	6 How many SQUARE YARDS were covered? [Total square yards covered x number of times over.] 1/
	0959	0967	0975	0983	0991
	0960	0968	0976	0984	0992
	0961	0969	0977	0985	0993
	0962	0970	0978	0986	0994
	0963	0971	0979	0987	0995
	0964	0972	0980	0988	0996
	0965	0973	0981	0989	0997
	0966	0974	0982	0990	0998

1/ For backhoes, disk border maker, ditch closer, ditcher, levee-plow disk, quarter drain machine and rear mounted blade, enter total HOURS, not square yards

OFFICE USE

0014

C

FLUE-CURED TOBACCO FIELD SELECTION

C

3. I will follow a simple procedure to make a random selection of a single field of flue-cured tobacco.

What is the TOTAL number of flue-cured tobacco fields that were planted on your operation in 1996?

[If only 1 field, go to item 5.]

NUMBER

0050

4. Please list these fields according to identifying numbers/names or describe each field. Then I will tell you which field has been selected.
(If there are more than 18 fields, list only the 18 fields closest to your permanent residence.)
[If respondent is unable to identify or describe the fields, use a Field Selection Supplement.]

FIELD NUMBER, NAME OR DESCRIPTION

1

2

3

4

5

6

7

8

9

FIELD NUMBER, NAME OR DESCRIPTION

10

11

12

13

14

15

16

17

18

APPLY "RANDOM NUMBER" LABEL HERE

5. [ENUMERATOR ACTION:] Circle the pair of numbers on the above label associated with the last numbered field in item 4. Select the field according to the number you circled on the label, and record the selected number.
[If only 1 field, enter 1.]

RECORD SELECTED
NUMBER HERE

0051

6. The field selected is (field number/name/description).
For most of the interview, my questions will be about this field.
[Be sure the operator can identify the selected field.]

D

FIELD CHARACTERISTICS---SELECTED FIELD

D

1. How many acres of flue-cured tobacco did this operation plant in the selected field in 1996? ACRES
0055
2. Was this field--
- 1 OWNED BY THIS OPERATION?

2 RENTED FOR CASH?

3 SHARE RENTED?

4 USED RENT-FREE?

..... CODE
0056
- a. [If field is CASH RENTED, item 2 is 2, ask:-]
What was the cash rent paid (per acre)? TOTAL DOLLARS
0057 OR DOLLARS & CENTS
0058
- b. [If field is SHARE RENTED, item 2 is 3, ask:-]
What was the landlord's share of the crop from this field? PERCENT
0059
3. What average yield per acre do you normally EXPECT from this field? POUNDS PER ACRE
0060
12. How many acres in this field had to be replanted or reset to flue-cured tobacco? ACRES
0067
16. How many acres in this field were actually harvested? 0100
- a. What was the actual yield per acre at harvest? POUNDS PER ACRE
0101

PARTIAL CROP CODE LIST FOR ITEM 17			
1 Alfalfa hay	11 Hay, all other	192 Sorghum, all	34 Wheat, all
190 Barley	301 Pasture	26 Soybeans	318 Fallow or Idle (diverted)
191 Corn, all	16 Peanuts	196 Tobacco, flue-cured	
8 Cotton	22 Rye	32 Tobacco, all other	

17. Next I need to know what crops were previously planted on this field, including cover crops.
[If no crop was planted during the period, use code 318.
If crop isn't listed in the code table, record the crop name beside the cell and leave the cell blank.]

What crop was planted on this field--

- a. in FALL of 1995? CODE
0103
- (1) What was the total cost of the cover crop seed for this field, including landlord's expenses? DOLLARS
0113
- b. in SPRING/SUMMER of 1995? CODE
0104
- d. in SPRING/SUMMER of 1994? 0106

FERTILIZER and NUTRIENT APPLICATIONS---SELECTED FIELD

E

1. What FERTILIZERS were applied to this field for the 1996 flue-cured tobacco crop? [If none, go to item 3.]
(Include chemical fertilizers. Include custom applied fertilizers. Include fertilizer applied in the fall of 1995 and those applied earlier if this field was fallow. Exclude micro-nutrients.)

EDIT TABLE

0201

T-TYPE	TABLE
2	001

LINE NUMBER	2 → → → MATERIALS USED [Enter percentage analysis or actual pounds of plant nutrients applied per acre.]			3 What quantity was applied per acre? [Leave this column blank if actual nutrients were reported.]	4 [Enter material unit code.] 1 POUNDS 12 GALLONS 19 POUNDS of ACTUAL NUTRIENTS	7 How many acres were treated in this application? ACRES
	N Nitrogen	P ₂ O ₅ Phosphate	K ₂ O Potash			
01	0205	0206	0207	0208	0209	0212 . _____
02	0205	0206	0207	0208	0209	0212 . _____
03	0205	0206	0207	0208	0209	0212 . _____
04	0205	0206	0207	0208	0209	0212 . _____
05	0205	0206	0207	0208	0209	0212 . _____
06	0205	0206	0207	0208	0209	0212 . _____
99	OFFICE USE NUMBER OF LINES IN TABLE					0213

T-TYPE	TABLE	LINE
0	000	00

3. Was a soil test or plant tissue test performed on this field in 1995 or 1996 for the 1996 crop?

☐ YES - [Enter code 1 and continue.] ☐ NO - [Go to item 5.]

CODE

0166

- a. How much was spent for these soil tests or plant tissue tests on this field? [Include landlord's costs.]

DOLLARS PER ACRE
0167

- b. [If this field was RENTED, ask--]
 How much did your LANDLORD spend for these tests on this field?

PERCENT

OR

TOTAL DOLLARS

0168

0169

E FERTILIZER and NUTRIENT APPLICATIONS---SELECTED FIELD

E

5. Is lime ever applied to this field?

☐ **YES** - [Enter code 1 and continue.]

☐ **NO** - [Go to item 8.]

CODE

0172

a. On average, how many years are there between applications of lime to this field?

YEARS

0173

b. How many tons of lime were applied per acre the last time it was applied to this field?

TONS PER ACRE

0174

c. [Ask only if field was CASH or SHARE RENTED.]
What percent of the total cost of lime and its application was paid by the landlord?

PERCENT

0175

8. Was manure applied to this field for the 1996 flue-cured tobacco crop?
(Exclude commercially prepared manure.)

☐ **YES** - [Enter code 1 and continue.]

☐ **NO** - [Go to item 9.]

CODE

0176

a. How many acres was manure applied to?

ACRES

0177

b. What was the total amount of manure applied to this field?

TOTAL TONS

OR

TOTAL GALLONS

0178

0179

9. Not including the cost of fertilizer materials, how much was spent for CUSTOM APPLICATION of fertilizers on this field for the 1996 flue-cured tobacco crop?
(Include landlord costs. Exclude custom application of lime.)
[If material and application costs can't be separated, exclude them here and record the total in item 10.]

DOLLARS & CENTS
PER ACRE

OR

TOTAL DOLLARS

0186

0187

10. What was the TOTAL MATERIALS cost for all fertilizer, soil conditioners, micronutrients, etc. applied to this field for the 1996 flue-cured tobacco crop?
(Include landlord costs. Exclude lime or purchased manure. If custom applied, include the cost of materials ONLY, unless materials and application costs cannot be separated. Include materials applied to this field if it was fallow in 1995.)

DOLLARS & CENTS
PER ACRE

OR

TOTAL DOLLARS

0188

0189

[If this field was RENTED, continue; otherwise go to Section F.]

11. What was the TOTAL LANDLORD COST for CUSTOM FERTILIZER APPLICATIONS on this field for the 1996 flue-cured tobacco crop? (Exclude material costs.)

PERCENT

OR

TOTAL DOLLARS

0190

0191

12. What was the TOTAL MATERIALS cost paid by the LANDLORD for fertilizers, soil conditioners and micronutrients applied to this field for the 1996 flue-cured tobacco crop? (Exclude application costs.)

PERCENT

OR

TOTAL DOLLARS

0192

0193

F

PESTICIDE APPLICATIONS---SELECTED FIELD

F

EDIT TABLE

0301

1. Were any herbicides, insecticides, fungicides or other chemicals used on this field for the 1996 flue-cured tobacco crop?
(**Include** applications made in the fall of 1995 and those made earlier if this field was fallow. **Include** custom applied materials.)

T-TYPE
3TABLE
001

☐ YES - [Continue.] ☐ NO - [Go to Section H, page 14.]

NOTES	LINE	2 What products were applied to this field? [Use product codes from Respondent Booklet.]	3 Was this product bought in liquid or dry form? [Enter L or D.]	4 Was this part of a tank mix? [If tank mix, enter line number of first product in tank mix.]	6 OR 7		8 [Enter unit code.] 1 POUNDS 12 GALLONS 13 QUARTS 14 PINTS 15 OUNCES 30 GRAMS	10 How many acres in this field were treated with this product? ACRES
					How much was applied per acre per application?	What was the total amount applied per application in this field?		
	01	0305		0306	0308 * _ _	0309	0310	0312 * _
	02	0305		0306	0308 * _ _	0309	0310	0312 * _
	03	0305		0306	0308 * _ _	0309	0310	0312 * _
	04	0305		0306	0308 * _ _	0309	0310	0312 * _
	05	0305		0306	0308 * _ _	0309	0310	0312 * _
	06	0305		0306	0308 * _ _	0309	0310	0312 * _
	07	0305		0306	0308 * _ _	0309	0310	0312 * _
	08	0305		0306	0308 * _ _	0309	0310	0312 * _
	09	0305		0306	0308 * _ _	0309	0310	0312 * _
	10	0305		0306	0308 * _ _	0309	0310	0312 * _
99	OFFICE USE NUMBER OF LINES IN TABLE							0319

[For pesticides not listed in Respondent Booklet, specify--]

LINE	Pesticide Type (Herbicide, Insecticide Fungicide, etc.)	EPA No. or Tradename and Formulation	Form Purchased (Liquid or Dry)	Where Purchased [Ask only if EPA No. cannot be reported.]
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

F

PESTICIDE APPLICATIONS---SELECTED FIELD

F

[ENUMERATOR NOTE:
Use these columns only if
TOTAL COST (item ④ below)
cannot be provided.]

LINE	OPTIONAL ITEM ④ What was the cost per unit of the product?	
	DOLLARS & CENTS PER UNIT	UNIT CODE 1 POUNDS 14 PINTS 12 GALLONS 15 OUNCES 13 QUARTS 30 GRAMS
01	0315 . ____	0316
02	0315 . ____	0316
03	0315 . ____	0316
04	0315 . ____	0316
05	0315 . ____	0316
06	0315 . ____	0316
07	0315 . ____	0316
08	0315 . ____	0316
09	0315 . ____	0316
10	0315 . ____	0316

T-TYPE	TABLE	LINE
0	000	00

3. How much was spent for CUSTOM APPLICATION of chemicals and pesticides on this field, excluding the cost of chemicals? **(Include landlord cost.)** [If material and application costs can't be separated, **exclude** them here and record the total in item 4.]

DOLLAR & CENTS PER ACRE	OR	TOTAL DOLLARS
0215 . ____		0216

- ④ What was the TOTAL cost of all herbicides, insecticides, fungicides and other chemicals applied to this field? **(Include landlord cost. Include** surfactants, wetting agents, and sucker control chemicals. **Include** materials applied to this field before planting and during 1995 fallow period. **Exclude** seed treatments.) [If custom applied, **include** the costs of materials ONLY, unless material and application costs can't be separated.]

DOLLAR & CENTS PER ACRE	OR	TOTAL DOLLARS
0217 . ____		0218

[If this field was RENTED, continue; else go to Section H.]

5. What was the LANDLORD's share of the total CUSTOM APPLICATION cost of pesticides applied to this field? **(Exclude material costs.)**

PERCENT	OR	TOTAL DOLLARS
0219		0220

6. What was the LANDLORD's share of the total cost for CHEMICALS AND PESTICIDES applied to this field? **(Exclude application costs.)**

PERCENT	OR	TOTAL DOLLARS
0221		0222

H **FIELD OPERATIONS and CUSTOM SERVICES---SELECTED FIELD** *H*

1. Now I need to list all tractors used to produce flue-cured tobacco on this selected field.
(Include all tractors owned, rented, leased or borrowed and those used to haul flue-cured tobacco out of the field to the point of first sale or storage. Exclude tractors provided by custom operators.)

1	2 What tractors were used on THIS FIELD? MAKE and MODEL	3 What was the model year? [Enter last 2 digits.]	4 Is this tractor-- 2-wheel drive? 2-wheel drive with front wheel assist? 4-wheel drive? crawler? other?	5 What is its PTO horsepower? PTO HORSEPOWER	6 Is it-- 1 diesel? 2 gasoline? 3 LP gas 9 other?
1		0320	0326	0332	0338
2		0321	0327	0333	0339
3		0322	0328	0334	0340
4		0323	0329	0335	0341
5		0324	0330	0336	0342
6		0325	0331	0337	0343

4. Next, I need to list field work performed by machines on this field for the 1996 flue-cured tobacco crop. Let's begin with the first activity after harvest of the preceding crop and continue through hauling the crop out of the field. Include fertilizer and pesticide applications and ALL custom operations. Please list the operations in the order they occurred AND maintain the order of tandem hook-ups.
(If this field was fallow (idle, diverted) during 1995, list operations starting with the fall of 1994. Include plowing, corrugation, land preparation, planting, applying fertilizers and pesticides, preparing for irrigation, harvesting and hauling the flue-cured tobacco from the field using carts, trailers, or wagons.
Exclude the application of lime.)

INCLUDE FERTILIZER and PESTICIDE IMPLEMENTS
INCLUDE CUSTOM OPERATIONS

[If column 6 is code 1 (CUSTOM), skip columns 7-12.]

3 What operation or equipment was used?	4 [Record machine code from Respondent Booklet.]	6 Was this a custom operation? YES - [Enter code 1 and go to next operation.] NO - [Continue.]	7 What was the size or swath of the [machine] used?	8 [Record size code.] 1 FEET 2 ROW 3 MOLDBOARD (bottoms) HAULING 4 POUNDS 5 BUSHELS 6 TONS	9 Which tractor was used? [Record line number from item 1.] 66 Animal Drawn 77 Pick-Up 88 Other Trucks 99 Self-Propelled]	12 How many acres were covered? [Total acres covered X number of times over.] 1/ ACRES
	0394	0441	0471	0501	0531	0611 · ____
	0395	0442	0472	0502	0532	0612 · ____
	0396	0443	0473	0503	0533	0613 · ____
	0397	0444	0474	0504	0534	0614 · ____
	0398	0445	0475	0505	0535	0615 · ____

- 1/ For backhoes, disk border maker, ditch closer, ditcher, levee-plow disk, quarter drain machine and rear mounted blade, AND for hauling operations, enter total HOURS, not acres.

H **FIELD OPERATIONS and CUSTOM SERVICES---SELECTED FIELD** *H*

4. Continued--

INCLUDE FERTILIZER and PESTICIDE IMPLEMENTS

INCLUDE CUSTOM OPERATIONS

[If column 6 is code 1 (CUSTOM), skip columns 7-12.]

3 What operation or equipment was used?	4 [Record machine code from Respondent Booklet.]	6 Was this a custom operation? YES - [Enter code 1 and go to next operation.] NO - [Continue.]	7 What was the size or swath of the [machine] used?	8 [Record size code.] 1 FEET 2 ROW 3 MOLDBOARD (bottoms) HAULING 4 POUNDS 5 BUSHELS 6 TONS	9 Which tractor was used? [Record line number from item 1.] 66 Animal Drawn 77 Pick-Up 88 Other Trucks 99 Self-Propelled]	12 How many acres were covered? [Total acres covered X number of times over.] 1/ ACRES
	0399	0446	0476	0506	0536	0616 · ____
	0400	0447	0477	0507	0537	0617 · ____
	0401	0448	0478	0508	0538	0618 · ____
	0402	0449	0479	0509	0539	0619 · ____
	0403	0450	0480	0510	0540	0620 · ____
	0404	0451	0481	0511	0541	0621 · ____
	0405	0452	0482	0512	0542	0622 · ____
	0406	0453	0483	0513	0543	0623 · ____
	0407	0454	0484	0514	0544	0624 · ____
	0408	0455	0485	0515	0545	0625 · ____
	0409	0456	0486	0516	0546	0626 · ____
	0410	0457	0487	0517	0547	0627 · ____
	0411	0458	0488	0518	0548	0628 · ____
	0412	0459	0489	0519	0549	0629 · ____
	0413	0460	0490	0520	0550	0630 · ____
	0414	0461	0491	0521	0551	0631 · ____
	0415	0462	0492	0522	0552	0632 · ____
	0416	0463	0493	0523	0553	0633 · ____
	0417	0464	0494	0524	0554	0634 · ____
	0418	0465	0495	0525	0555	0635 · ____

OFFICE USE

1/ For backhoes, disk border maker, ditch closer, ditcher, levee-plow disk, quarter drain machine and rear mounted blade, AND for hauling operations, enter total HOURS, not acres.

H *FIELD OPERATIONS and CUSTOM SERVICES---SELECTED FIELD* *H*

0017

H **FIELD OPERATIONS and CUSTOM SERVICES---SELECTED FIELD** *H*

4. Continued--

INCLUDE FERTILIZER and PESTICIDE IMPLEMENTS
INCLUDE CUSTOM OPERATIONS

[If column 6 is code 1 (CUSTOM), skip columns 7-12.]

3 What operation or equipment was used?	4 [Record machine code from Respondent Booklet.]	6 Was this a custom operation? YES - [Enter code 1 and go to next operation.] NO - [Continue.]	7 What was the size or swath of the [machine] used?	8 [Record size code.] 1 FEET 2 ROW 3 MOLDBOARD (bottoms) HAULING 4 POUNDS 5 BUSHELS 6 TONS	9 Which tractor was used? [Record line number from item 1.] 66 Animal Drawn 77 Pick-Up 88 Other Trucks 99 Self-Propelled]	12 How many acres were covered? [Total acres covered X number of times over.] 1/ ACRES
	0419	0466	0496	0526	0556	0636
	0420	0467	0497	0527	0557	0637
	0421	0468	0498	0528	0558	0638
	0422	0469	0499	0529	0559	0639
	0423	0470	0500	0530	0560	0640

1/ For backhoes, disk border maker, ditch closer, ditcher, levee-plow disk, quarter drain machine and rear mounted blade, AND for hauling operations, enter total HOURS, not acres.

7. Now I need some information on how much was spent for custom and technical services used on this field for the 1996 flue-cured tobacco crop.

1 CUSTOM or TECHNICAL SERVICE [Check CUSTOM operations reported in item 4. Complete columns 2 and 3 for all items checked.]	2 (Including landlord's cost) How much was spent for [custom or technical service in column 1] on this field for the 1996 flue-cured tobacco crop? DOLLARS & CENTS PER ACRE	3 How much did your LANDLORD spend for this service on this flue-cured tobacco field? PERCENT OR TOTAL DOLLARS
<input checked="" type="checkbox"/> a. technical services such as scouting for pests?	0756 _____	0764 0772
<input type="checkbox"/> b. custom land preparation, shaping and/or leveling?	0757 _____	0765 0773
<input type="checkbox"/> c. custom cultivating?	0758 _____	0766 0774
<input type="checkbox"/> e. custom transplanting?	0760 _____	0768 0776
<input type="checkbox"/> f. custom harvesting and hauling of crop from field to storage or point of first market?	0761 _____	0769 0777
<input checked="" type="checkbox"/> g. custom hauling plants, water or sticks?	0762 _____	0770 0778
<input checked="" type="checkbox"/> h. other custom and/or technical services? (specify _____) (Exclude custom fertilizer and chemical applications. Include custom curing.)	0763 _____	0771 0779

--	--	--	--

ACRES

1. How many acres in this field were irrigated for the 1996 flue-cured tobacco crop?
[If none, go to Section K, page 20.]

0785

2. Now, I have some questions about irrigation systems and water used on this field for the 1996 flue-cured tobacco crop.

		UNIT	SYSTEM 1	SYSTEM 2
a. What type(s) of irrigation system(s) were used to irrigate this field? [Ask Respondent to look at System Type Codes in the Respondent Booklet. Enter System Type Code for up to two systems covering the most field acres.]	↓	SYSTEM TYPE CODE	0786	0798
b. What was the total number of inches of water applied per acre to this field during the entire growing season? [Include ALL water used from both on-farm and off-farm sources.]		INCHES PER ACRE	0787	0799
c. [If operator cannot provide item b, ask--] What is the total number of hours this system was used to apply water to this field during the flue-cured tobacco growing season?		TOTAL HOURS	0788	0800
e. What percentage of the water used to irrigate this field through this system came from surface water sources?		PERCENT	0789	0801
f. What was the number of times this field was irrigated during the flue-cured tobacco growing season using this system? [Include any pre-plant irrigation.]		NUMBER OF IRRIGATIONS	0790	0802
g. Was the pump type-- [Enter code for most common pump type.] [If more than one pump in the system, enter type for pump closest to water source.]	1 TURBINE? 2 SUBMERSIBLE? 3 CENTRIFUGAL? 4 BOOSTER? 5 SIPHON? 99 NO PUMP-? [Go to item m.]	CODE	0791	0803
h. What was the average pumping rate?		GALLONS PER MINUTE	0792	0804
i. [If item 2a is code 1-9 (PRESSURE SYSTEM), ask--] What was the system operating pressure?		POUNDS PER SQUARE INCH	0793	0805
j. What was the motor type?	1 DIESEL 2 GASOLINE 3 LP GAS 4 NATURAL GAS 5 ELECTRICITY 6 SOLAR POWER	CODE	0794	0806
k. What was the average motor size?		HORSE-POWER	0795	0807
m. [Ask only if NO PUMP was used (item g is code 99); else go to item n.] What was the average flow rate?		GALLONS PER MINUTE	0796	0808
n. How many other crop acres on this operation were irrigated using this field's irrigation system during the 1996 growing season? [Exclude this field.]		ACRES	0797	0809

3. Was any water purchased to irrigate this field?
(**Include** landlord's share. **Include** purchases from all sources.)

☐ YES - [Enter code 1 and continue.]

☐ NO - [Go to item 4.]

CODE

0817

PERCENT

0818

a. What percentage of the water used on this field was purchased?

DOLLARS

b. What was the total cost for the water purchased for this field during the 1996 growing season?
[Include landlord's cost.]

0819

4. [If SIPHON TUBES were used (line a of item 2 is 10 or 11), ask--]
What would be the total cost to replace all the siphon tubes used on this field?

0820

5. [If POLY PIPE system was used (line a of item 2 is 14), ask--]
What was the total amount spent for poly pipe used on this field during the 1996 growing season?

0821

INCHES

0822

6. [If GATED PIPE system was used (line a of item 2 is 15 or 16), ask--]

a. What was the average diameter of gated pipe used to irrigate this field?

FEET

0823

b. What was the total length of gated pipe used?

7. Were wells used to supply irrigation water for this field?

☐ YES - [Enter code 1 and continue.]

☐ NO - [Go to item 8.]

CODE

0824

NUMBER

0825

a. How many wells were used to irrigate this field?

INCHES

0826

b. What was the average diameter of the outer well casing?

c. What was the average pumping depth of these wells during the irrigation season?
[Pumping depth is the depth to water at the start of the irrigation season, plus an average decline in the water level caused by pumping during the irrigation season.]

FEET

0827

8. Other than pipe that is part of the system, was any additional mainline or lateral pipe used to carry water from the source to this field? (**Include** underground pipe.)

☐ **YES** - [Continue.] ☐ **NO** - [Go to item 9.]

- a. What was the most common type of additional pipe used?

PIPE TYPE CODES	
1	ALUMINUM - (NON-HI-PRESSURE)
2	ALUMINUM - (HI-PRESSURE)
3	ASBESTOS CONCRETE
4	STEEL
5	PLASTIC
6	OTHER

(SPECIFY: _____)

CODE

0828

- b. What was the average diameter (in inches) of the most common type of this additional pipe used?

INCHES

0829

- c. How many feet of this additional pipe were used to carry water to this field?

FEET

0830

9. [If this field was RENTED, continue; else go to Section K.]

What was the LANDLORD's share of the total cost for--

- a. fuel, lubrication and electricity used to irrigate this field?
- b. repairs for irrigation equipment used to irrigate this field?
- c. purchased irrigation water used to irrigate this field?

PERCENT

OR

TOTAL DOLLARS

0831

0832

0833

0834

0835

0836

K

VEHICLES and TRUCKS--ENTERPRISE

K

1. Now I'm done with questions about this field. The rest of my questions will be about vehicles, labor and harvesting and curing your entire 1996 flue-cured tobacco crop.

First I'll be asking about all vehicles and trucks that were used on the entire 1996 flue-cured tobacco crop (no matter which field it was grown in).

(Include all vehicles owned, rented, leased or borrowed, and those used to haul flue-cured tobacco out of the field to the point of first sale or storage.

Exclude vehicles provided by custom operators.)

1 VEHICLES	2 How many [vehicles] were there? NUMBER	3 What was the total mileage driven by these [vehicles] for all farm uses during the past 12 months? MILES	4 What percent of these miles were for the flue-cured tobacco crop? PERCENT
Pick-ups, Cars & Sport Utility Vehicles	0861	0863	0865
ATVs and Motorcycles	0862	0864	0866

1 What other trucks were used for the 1996 flue-cured tobacco crop? (Exclude pick-ups)	2 Is this truck: 1 diesel? 2 gasoline? 3 LP gas? 9 other?	3 Is it-- 1 single axle? 2 tandem axle? 3 semi?	4 How many total miles was this truck driven for all farm uses during the last 12 months? MILES	5 What percentage of these farm-use miles were for the entire flue-cured tobacco crop? PERCENT
MAKE	CODE	CODE		
	0867	0873	0879	0885
	0868	0874	0880	0886
	0869	0875	0881	0887
	0870	0876	0882	0888
	0871	0877	0883	0889
	0872	0878	0884	0890

L

TOBACCO LABOR--ENTERPRISE

L

1. I also need to get some information about labor used on the entire 1996 flue-cured tobacco crop. I need to list ALL workers, both paid and unpaid, that worked on the flue-cured tobacco fields, greenhouses, plant beds and/or float beds, including you (the operator) and any partners. (List individuals or groups of workers. If workers are grouped, indicate type and number.) (Exclude custom and contract labor.)

1 WORKERS	2 [Enter number of workers.]	3 Was (worker)-- 1 PAID 2 UNPAID CODE	4 [If PAID, ask--] Was (worker)-- 1 FULL TIME 2 PART TIME 3 SEASONAL CODE	5 What was the TOTAL number of hours [column 1] worked in the GREENHOUSES, PLANT BEDS, FLOAT BEDS and doing PRE- PLANT activities on the fields, including tilling, fertilizing, spraying, weeding and clipping? TOTAL HOURS	6 What was the TOTAL number of hours [column 1] worked during the PLANTING TO PRE-HARVEST PERIOD, including activities such as transplanting, irrigating, fertilizing and spraying? TOTAL HOURS	7 What was the TOTAL number of hours [column 1] worked during the HARVEST TO POST-HARVEST PERIOD, including activities such as harvesting, priming, hauling, curing and marketing? TOTAL HOURS
<input type="checkbox"/> You (the operator)				1021	1022	1023
<input type="checkbox"/> Partners	1024			1025	1026	1027
<input type="checkbox"/> Spouse		1028	1029	1030	1031	1032
	1033	1046	1059	1072	1085	1098
	1034	1047	1060	1073	1086	1099
	1035	1048	1061	1074	1087	1100
	1036	1049	1062	1075	1088	1101
	1037	1050	1063	1076	1089	1102
	1038	1051	1064	1077	1090	1103
	1039	1052	1065	1078	1091	1104
	1040	1053	1066	1079	1092	1105
	1041	1054	1067	1080	1093	1106
	1042	1055	1068	1081	1094	1107
	1043	1056	1069	1082	1095	1108
	1044	1057	1070	1083	1096	1109
	1045	1058	1071	1084	1097	1110

2. [Ask only if UNPAID labor was reported in column 3 of item 1.]
What percentage of the total hours worked by UNPAID workers
were worked by children under 16 years old?

PERCENT

1111

M **TOBACCO HARVESTING METHODS and CURING BARNs**

M

HARVESTING METHOD CODES for item 1 and 1a

1 WALKING PRIMERS	4 TWO-ROW MULTI-PASS HARVESTER
2 RIDING PRIMERS	5 ONCE OVER
3 ONE-ROW MULTI-PASS HARVESTER	6 ONE-ROW LAST-OVER

1. What primary method did you use to harvest the major portion of your flue-cured tobacco crop? [Enter code.]
- a. What additional harvesting method, if any, was used? [Enter code.]

CODE

1115

1116

CURING PREPARATION METHOD CODES for item 2 and 2a

1 HAND LOOP or TIE ON STICKS	4 FILL BIG BOXES AT BARN
2 BULK RACK AT BARN	5 FILL BIG BOXES IN FIELD
3 BULK RACK IN FIELD	

2. What was the major curing method used for your 1996 flue-cured tobacco crop? [Enter code.]
- a. What additional curing method, if any, was used? [Enter code.]

1117

1118

CURING BARNs

3. Now I need some information on curing barns used for the flue-cured tobacco in 1996.

1 ↓	2 CONVENTIONAL BARNs	3 BULK BARNs
a. How many [column] were used to cure flue-cured tobacco in 1996 NUMBER	1119	1124
b. How many times were these [column] used to cure flue-cured tobacco in 1996? (Number of barns X number of times used.) NUMBER	1120	1125
c. What was the TOTAL cost in 1996 for repairing, maintaining or servicing [column]? [Include landlord's share.] TOTAL DOLLARS	1121	1126
d. What was the total FUEL COST for curing flue-cured tobacco in [column] in 1996? [Include landlord's cost.] TOTAL DOLLARS	1122	1127
e. What was the total ELECTRICITY cost for curing flue-cured tobacco in [column] in 1996? [Include landlord's cost.] TOTAL DOLLARS	1123	1128

4. [If BULK BARNs were used for curing (column 3 of item 3 is positive), continue; else go to item 7.]
How many bulk barns were rack barns? [If none, go to item 5.]
a. What was the average number of racks used per barn?
5. How many bulk barns were big box barns? [If none, go to item 6.]
a. What was the average number of boxes used per barn?

NUMBER

1129

1130

1131

1132

M **TOBACCO HARVESTING METHODS and CURING BARNs**

M

6. In what year did this operation last purchase bulk barns?
[Enter the last 2 digits of the year and complete table below.]

YEAR	
1133	— —

1 ↓	2 NEW	3 USED
a. How many barns purchased that year were--[column] NUMBER	1134	1136
b. What was the average cost per [column] barn? DOLLARS	1135	1137

7. What was the TOTAL cost for leasing barns, regardless of type,
to cure or store the 1996 flue-cured tobacco crop?

DOLLARS
1138

8. Were any other structures (permanent or temporary) used for curing
or storing flue-cured tobacco in 1996?

☐ YES - [Continue.] ☐ NO - [Go to item 9.]

- a. How many other structures were used for
storing flue-cured tobacco in 1996?

NUMBER
1139

- b. What was their total size (in square feet)?

SQUARE FEET
1140

- c. How many years, on average, has it been since these
structures were built or remodeled?
[If more than 30 years old, enter 99.]

YEARS
1141

OTHER INPUTS

9. What was the TOTAL cost for fumigants, curing chemicals,
coloring agents and other chemicals used to cure the
1996 flue-cured tobacco crop?
(Include landlord's costs.)

DOLLARS
1142

10. How many wagons were used for any hauling of flue-cured tobacco
during 1996?
(Include hauling plants for transplanting, or hauling tobacco to barns,
storage or market.)

NUMBER
1143
1144

- a. How many trailers were used?

11. What were the average miles (one way) traveled to haul the
1996 flue-cured tobacco to market?

MILES
1145

- a. What was the total number of trips to haul the
flue-cured tobacco to market?

NUMBER
1146

CONCLUSION

LOCATION OF SELECTED FIELDS

1. I need to locate the selected field of flue-cured tobacco on this map.

What county is the selected flue-cured tobacco field in? _____

OFFICE USE--
COUNTY FIPS CODE

0021

[ENUMERATOR ACTION: Mark the map to indicate where the selected flue-cured tobacco field is located.
Be sure the "X" you mark on the map is in this county.]

2. Reporting the operator's Social Security and Federal Employer Identification number is voluntary. The authority to request them is Title 7, Section 2204 of the U.S. Code. These numbers will be used only within the National Agricultural Statistics Service for identification.

0022 OPERATOR'S SSN
_____-_____-_____-_____-_____-_____-

0023 OPERATION EIN
_____-_____-_____-_____-_____-_____-

3. There's other information we need in order to complete the profile of your operation. Because we'll be asking about year-end information, we will contact you in February or March, 1997, when your records are complete. I'll call you then to set up a time that's good for you.
[Offer survey results or other Agency publications. Thank the respondent, then review this questionnaire.]

RESPONDENT

- 1 OPERATOR/MANAGER/PARTNER
2 SPOUSE
3 ACCOUNTANT/BOOKKEEPER
4 OTHER

CODE

0025

Respondent's name

[if code 3 or 4] _____

Phone (_____) _____

RECORDS USE

Did the respondent use farm/ranch records to report fertilizer data? YES = 1

Did the respondent use farm/ranch records to report chemical data? YES = 1

Did respondent use farm/ranch records to report the majority of expense data? YES = 1

0027

0028

0029

SUPPLEMENTS USED

Record the total number of each type of supplement used to complete this interview.

FERTILIZER APPLICATIONS

CHEMICAL APPLICATIONS

FIELD OPERATIONS

TRUCKS and TRACTORS

NUMBER

0033

0034

0035

0036

ENDING TIME [MILITARY] _____

0037

MM DD YY

DATE: _____

0038

ENUMERATOR ID

ENUMERATOR _____

0039

EVALUATION

0040

